

SYSTEMS INTEGRATION CENTER
COMPUTER ROOM EXPANSION
DEPARTMENT OF VETERANS AFFAIRS
NATIONAL CEMETERY ADMINISTRATION
QUANTICO NATIONAL CEMETERY, TRIANGLE, VIRGINIA

INDEX OF DRAWINGS

A1 Title Sheet - Area of Work

ARCHITECTURAL

A2 Demolition Plan

A3 New Construction Plan

A4 Computer Room Floor Plan

A5 Reflected Ceiling Plan

A6 Building Sections

A7 Miscellaneous Detail Sheet

MECHANICAL

M1 Demolition Plan

M2 Mechanical Plan

M3 Computer Room Air Conditioning Units

GENERAL NOTES:

- Contractor to field verify all existing conditions prior to bidding contract
- Contractor to field verify all existing conditions prior to start of construction.
- All work performed by Contractor/Subcontractor shall be performed by Contractor/Subcontractor fully licensed to perform such work.
- Contractor to provide dust partitions between area of new construction and existing computer room. Demolition of new opening and demolition of wall shall be performed in such a manner as to protect existing computer equipment.

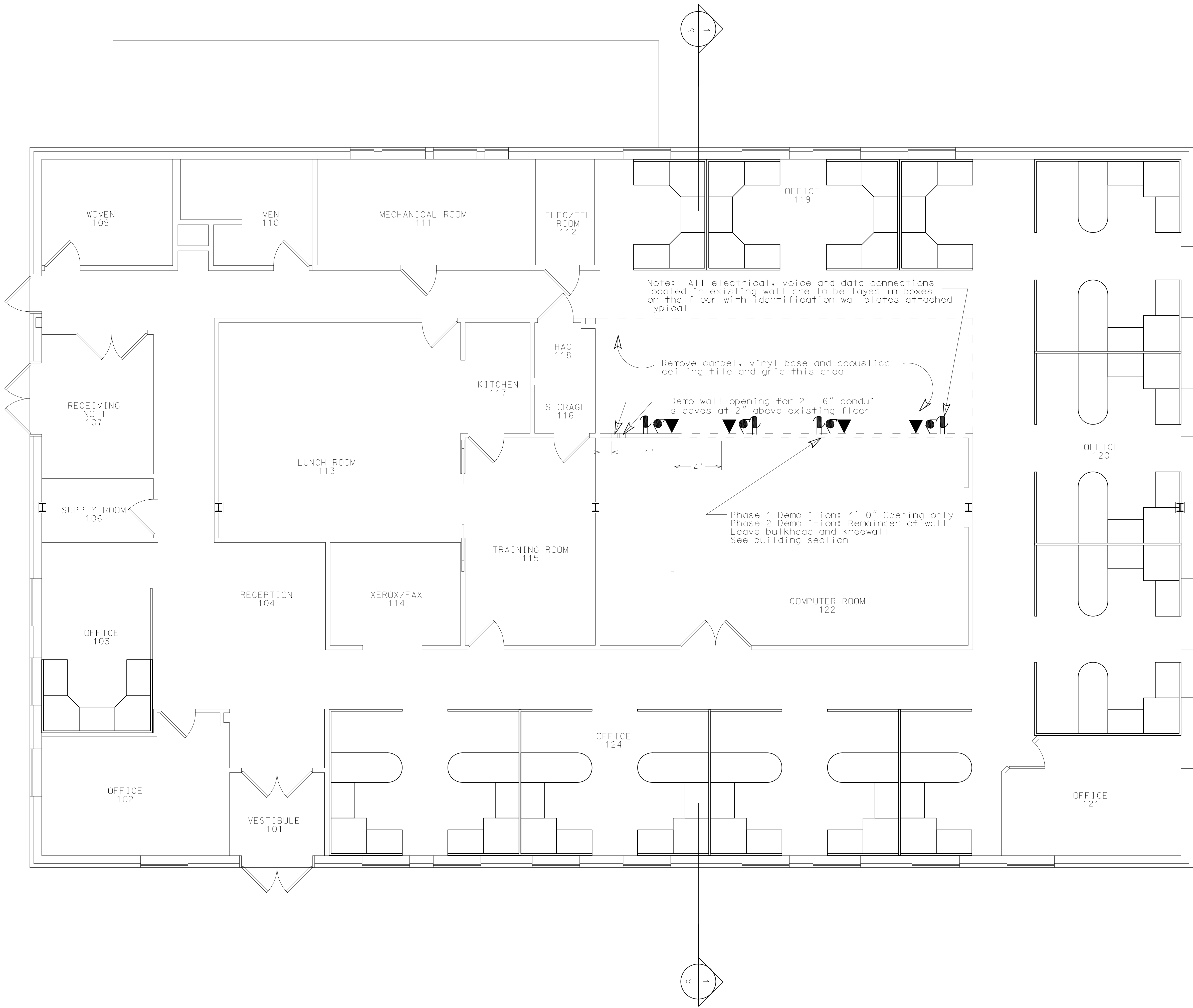


Revisions	Date



NATIONAL
CEMETERY
ADMINISTRATION

Drawing Title Cover Sheet	Project Title Computer Room Expansion Systems Integration Center 5101 Russell Road Quantico, Virginia 22134	Date 5/8/00
Approved: Director, Technical Support Service	Building Number 	Project No. 872CM3023
Approved: Chief, Architectural & Engineering Division	Checked 	Drawing No. A1
	Drawn JDS	Dwg. 1 of 10
	Location Quantico National Cemetery Quantico, Virginia	



DEMOLITION NOTES:

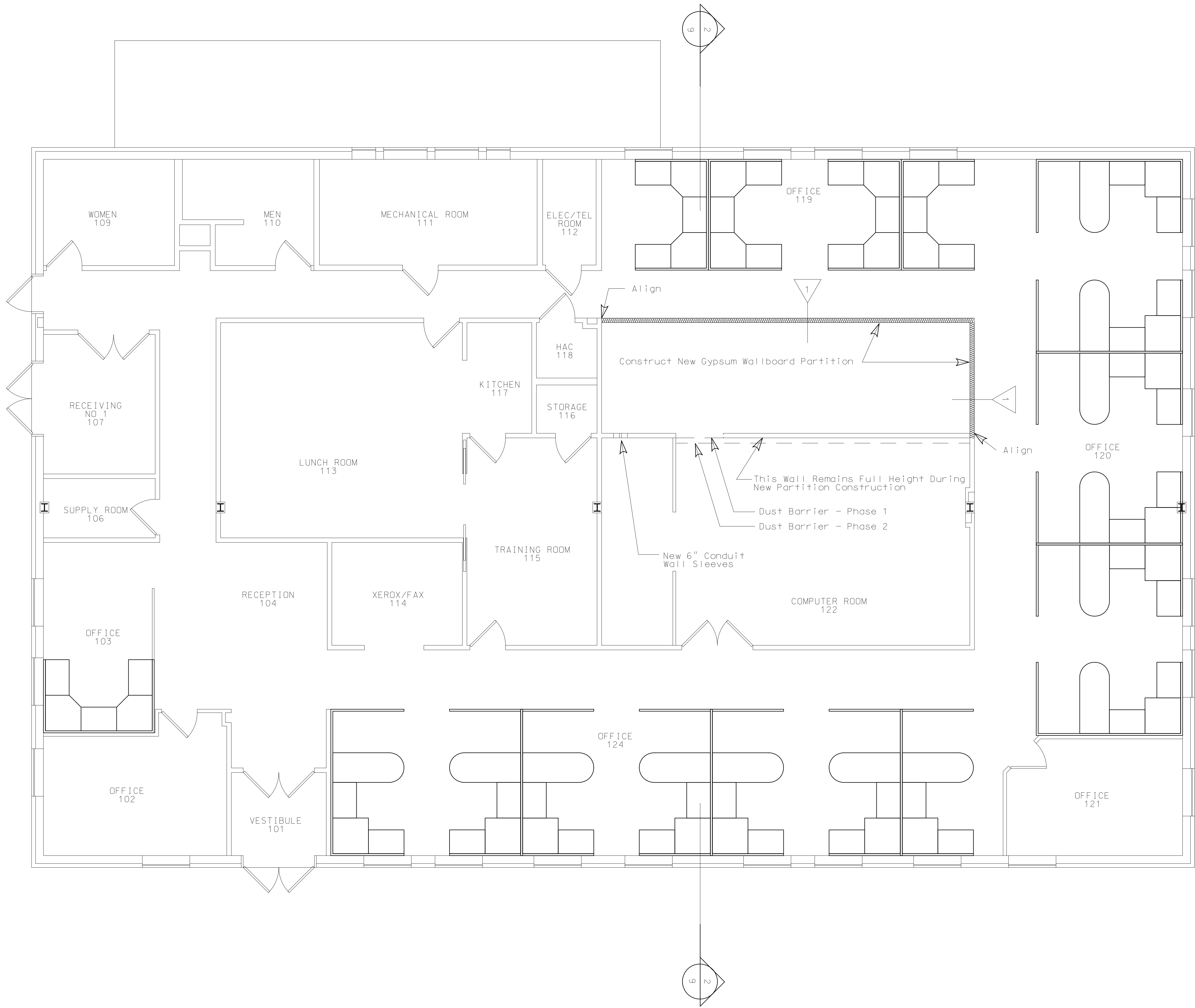
1. Remove existing carpet, padding and adhesive as shown on demolition plan. Patch and prepare all concrete finishes to be clean and smooth.
2. Remove existing vinyl base. Patch all damaged surfaces to match adjacent construction and finishes and prepare as required to receive new base.
3. Remove existing acoustical tile ceiling, including trim, and suspension system as shown on demolition plan.
4. Remove all electrical, voice and data connections located in existing wall. Boxes are to be layed on existing floor with identification wallplates attached.
5. Remove portion of wall shown dashed, where applicable by phasing.
6. Remove portion of dashed wall to create new bulkhead in accordance with section shown on drawing. Provide all framing, supports, hangers and other integral items necessary to accomplish. Patch to match existing construction.
7. Remove existing 2X4 lighting fixtures and store for re-installation in completed construction.
8. Remove and reinstall all acoustical tile and suspension grid as necessary to accomodate the installation of all necessary plumbing and mechanical hookups.

Revisions	Date



NATIONAL
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Drawing Title Demolition Plan	Project Title Computer Room Expansion Systems Integration Center 5101 Russell Road Quantico, Virginia 22134	Date 5/8/00
Approved: Director, Technical Support Service	Building Number Checked JDS	Project No. 872CM3023
Approved: Chief, Architectural & Engineering Division	Location Quantico National Cemetery Quantico, Virginia	DRAWING NO. A2 Dwg. 2 of 10



NEW CONSTRUCTION NOTES:

1. New partitions to be 3 1/2" metal studs at 24" on center maximum with 1/2" Gypsum Wallboard both sides and run continuous from floor to structure above. GWB to extend 6" above finish ceiling. Finish as scheduled.
2. New partitions to be sound insulated with 3 1/2" baten insulation.
3. Provide dust partition at new opening in existing computer room created by Phase 1 demolition.
4. Provide full length and full height dust partition in existing computer room during Phase 2 demolition.
5. Provide two 6" conduit wall sleeves as shown on plan. Seal around wall sleeves and patch to match adjacent finishes.
6. Provide new vinyl base as required to match existing.
7. Paint entire existing computer room and new computer room and the computer room expansion with two coats of paint per finish schedule.
8. Paint the exterior side of new computer room walls with two coats of paint to match existing.
9. Reinstall ceiling suspension system and modify as required to extend to exterior side of new computer room wall. Cut and fit acoustical tile as required.

Revisions		Date



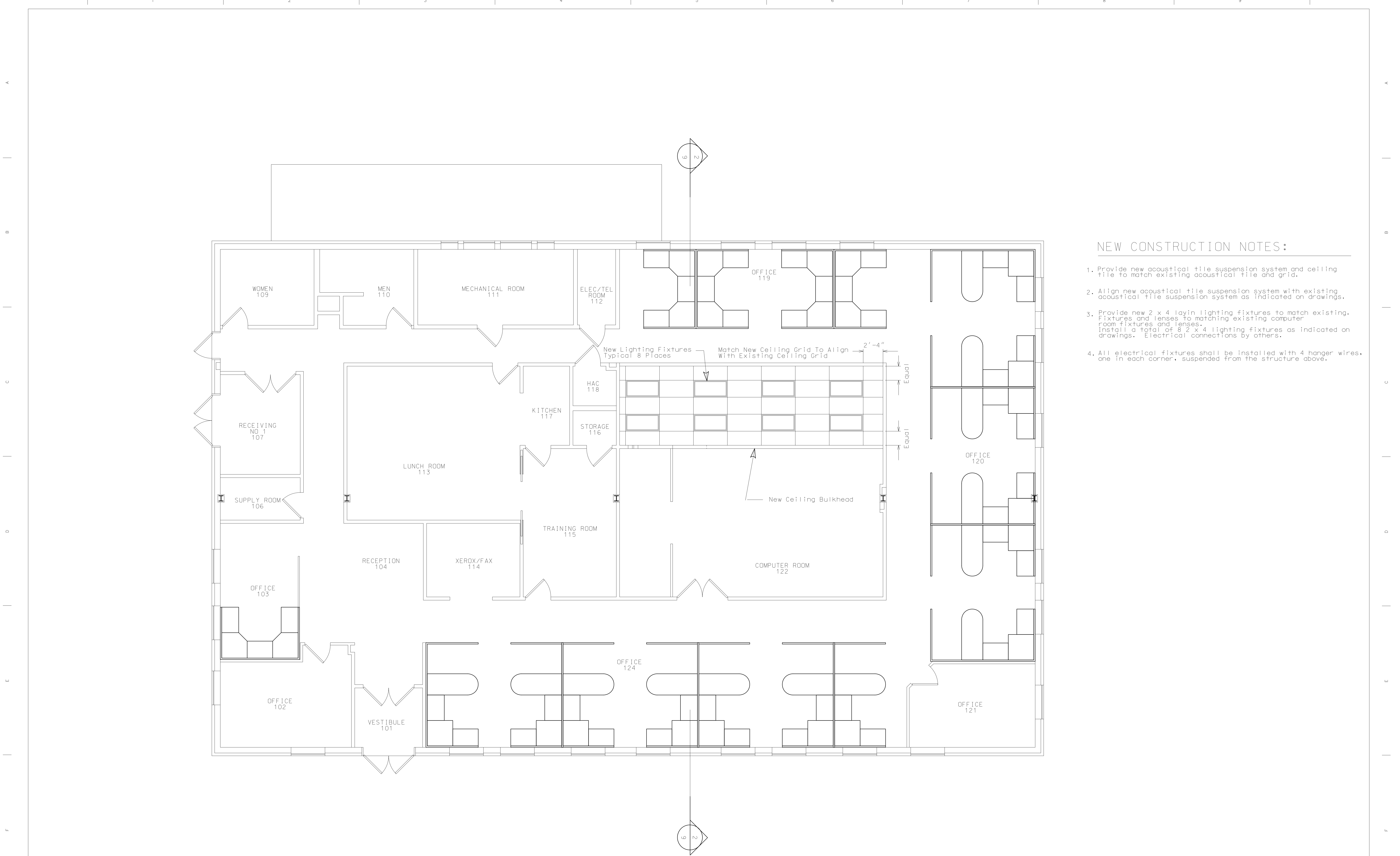
NATIONAL
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Drawing Title New Construction Plan	Project Title Computer Room Expansion		Date 5/8/00
	Systems Integration Center 5101 Russell Road Quantico, Virginia 22134		Project No. 872CM3023
	Approved: Director, Technical Support Service	Building Number 	Checked JDS
Approved: Chief, Architectural & Engineering Division	Location Quantico National Cemetery Quantico, Virginia		DRAWING NO. A3 Sg. 3 of 10



NEW CONSTRUCTION NOTES:

1. Provide new computer room floor to match existing. New computer room floor grid to align with existing computer room grid as indicated on drawings.
2. Pedestals for new computer room floor to be glued or bolted to concrete slab in accordance with manufacturer's recommendation.
3. Height of new computer room floor to be 1'-0" above concrete floor as indicated on drawings.
4. Install new computer room railing as indicated on the drawings and in accordance with manufacturer's recommendation.



NEW CONSTRUCTION NOTES:

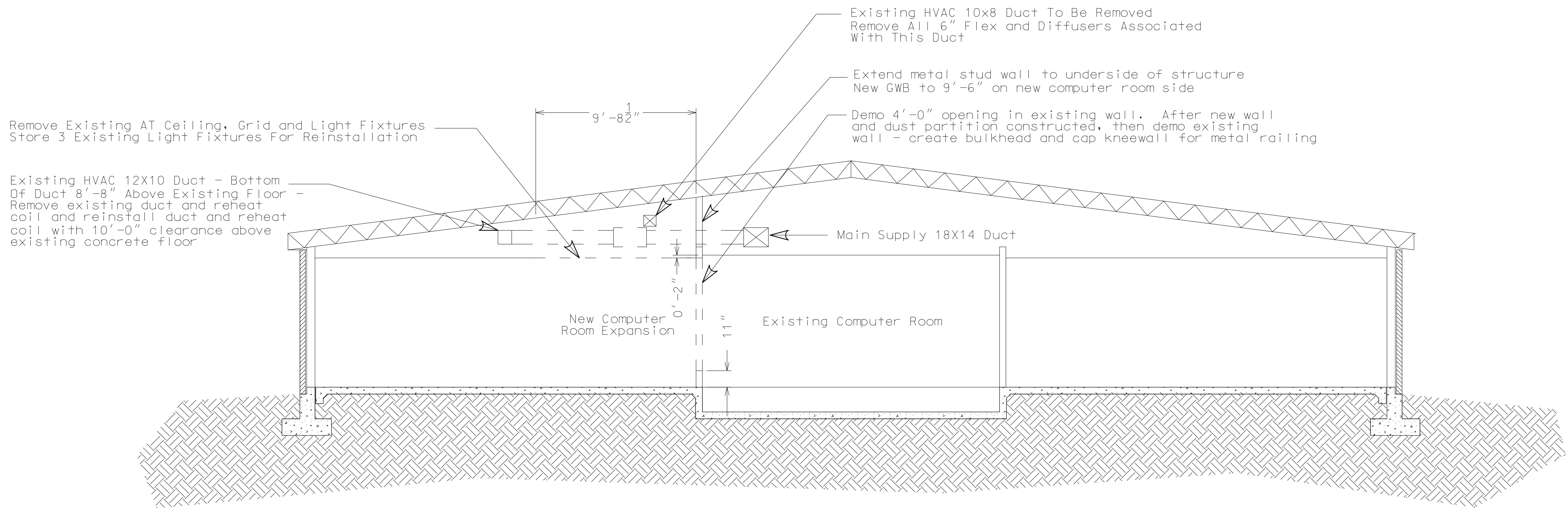
1. Provide new acoustical tile suspension system and ceiling tile to match existing acoustical tile and grid.
2. Align new acoustical tile suspension system with existing acoustical tile suspension system as indicated on drawings.
3. Provide new 2 x 4 layin lighting fixtures to match existing. Fixtures and lenses to matching existing computer room fixtures and lenses. Install a total of 8 2 x 4 lighting fixtures as indicated on drawings. Electrical connections by others.
4. All electrical fixtures shall be installed with 4 hanger wires, one in each corner, suspended from the structure above.

Revisions	Date

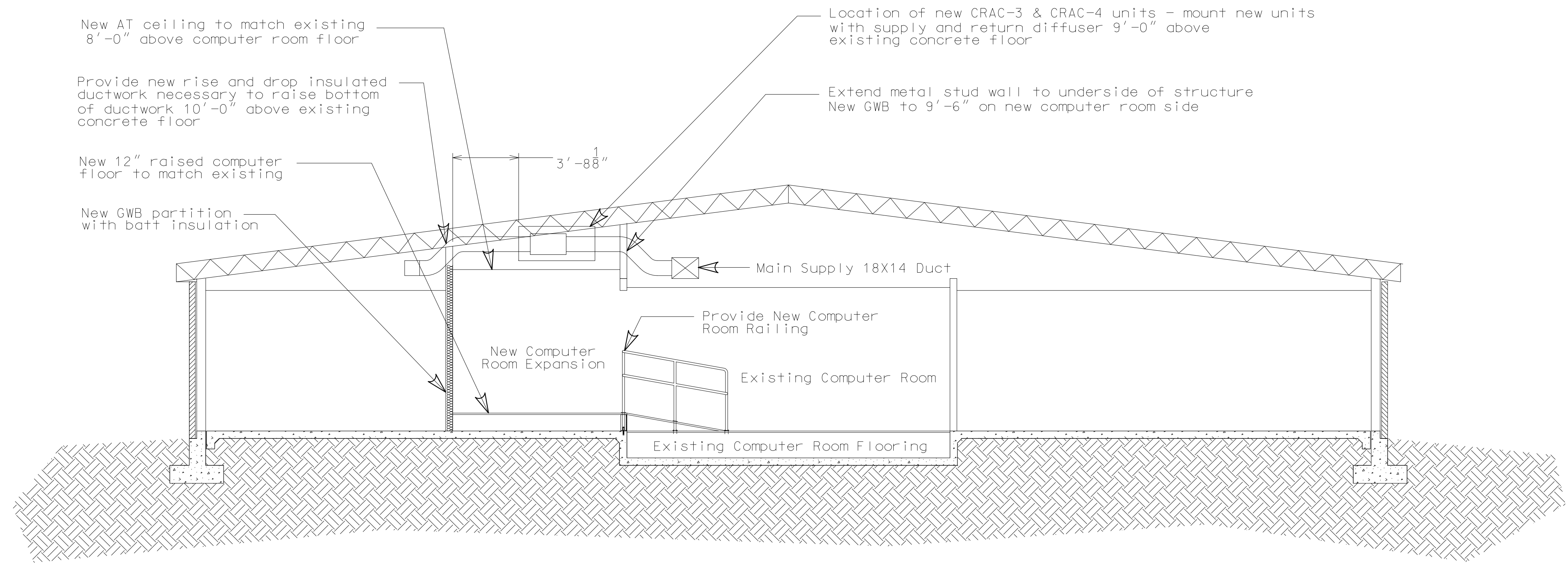


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Drawing Title	Project Title	Date
Reflected Ceiling Plan	Computer Room Expansion	5/8/00
Approved: Director, Technical Support Service	Systems Integration Center 5101 Russell Road Quantico, Virginia 22134	Project No. 872CM3023
Approved: Chief, Architectural & Engineering Division	Building Number	Checked
		Drawn JDS
	Location	DRAWING NO.
	Quantico National Cemetery Quantico, Virginia	A5
		Dwg. 5 of 10



1 Building Section - Demolition



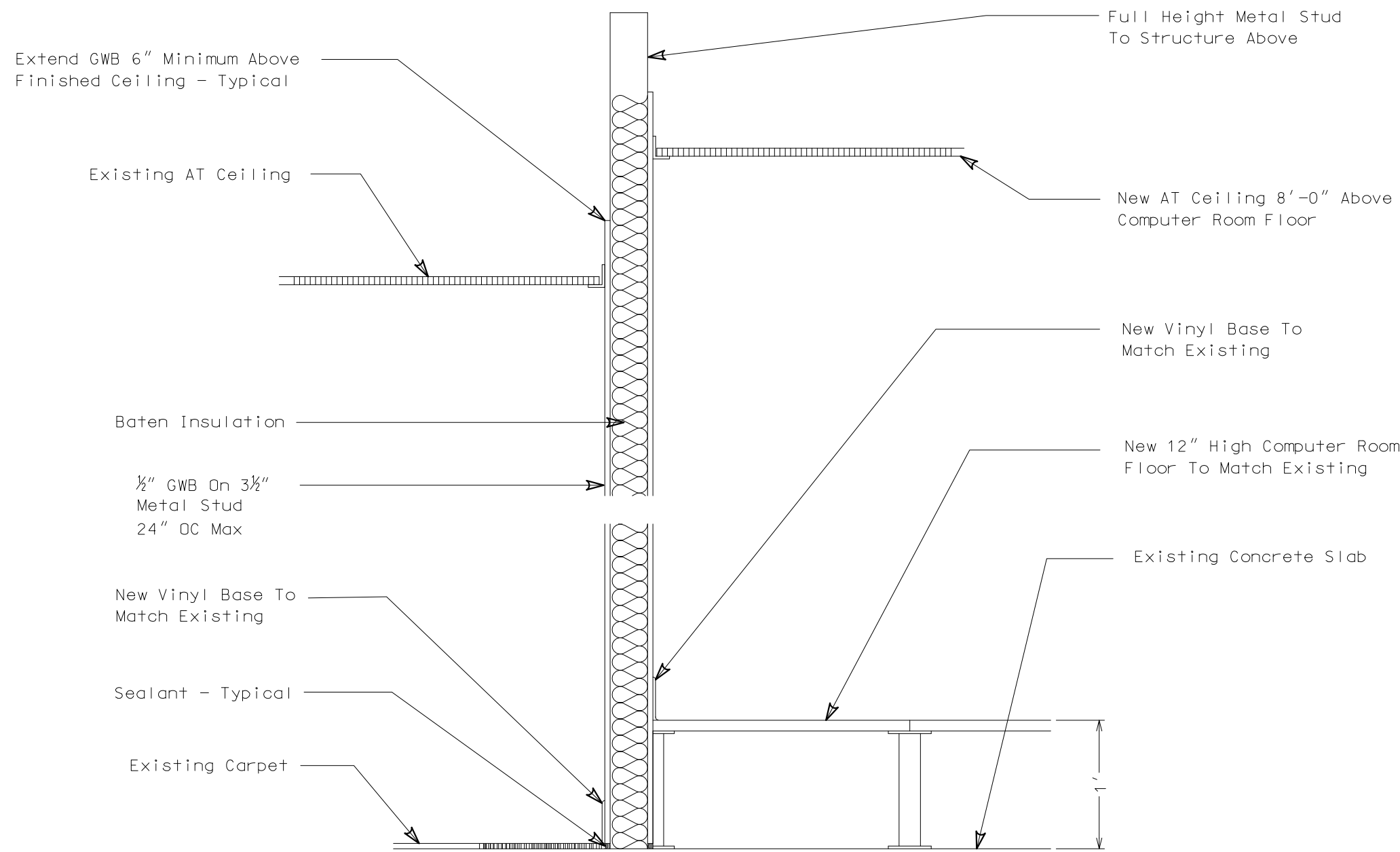
2 Building Section - New Construction

Revisions	Date



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Drawing Title	Project Title	Date
Building Sections	Computer Room Expansion	5/8/00
Approved: Director, Technical Support Service	Systems Integration Center 5101 Russell Road Quantico, Virginia 22134	Project No. 872CM3023
Approved: Chief, Architectual & Engineering Division	Building Number 	Checked
	Location Quantico National Cemetery Quantico, Virginia	Drawn JDS
		DRAWING NO. A6
		Dwg. 6 of 10



1
7 Partition - Type 1

SCALE:

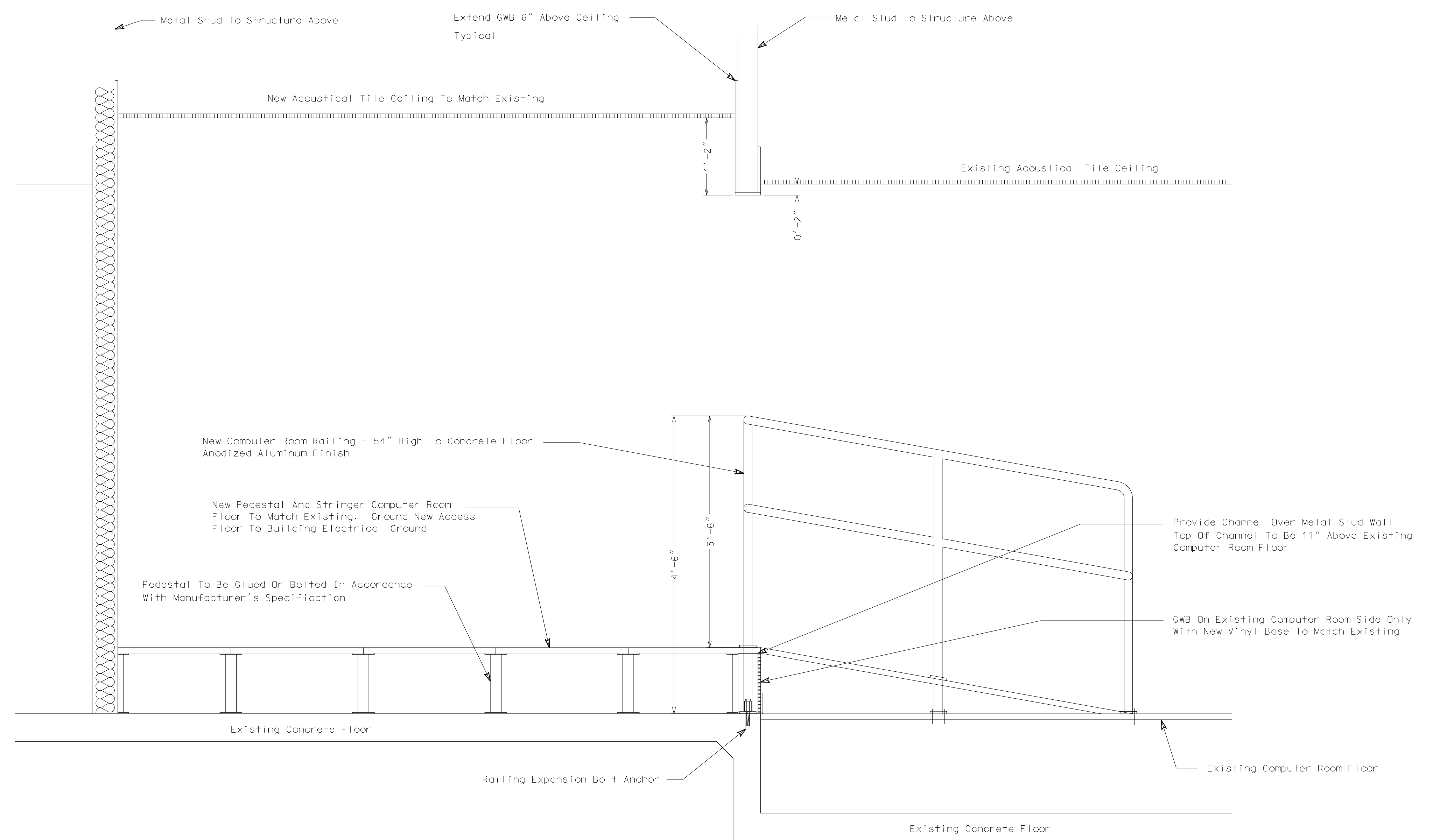
Contrator to match to the greatest extent possible, all floor, base, ceiling and paint finishes.

New wall painted to include the nearest corner to nearest corner.

Contractor to paint entire computer room.

2
7 Room Finish Schedule

SCALE:



3
7 Section Through Computer Room Expansion

SCALE:

Revisions	Date




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Drawing Title Miscellaneous Details	Project Title Computer Room Expansion Systems Integration Center 5101 Russell Road Quantico, Virginia 22134	Date 5/8/00
Approved: Director, Technical Support Service	Building Number 	Checked JDS
Approved: Chief, Architectural & Engineering Division	Location Quantico National Cemetery Quantico, Virginia	DRAWING NO. A7 Dwg. 7 of 10



1. Remove existing HVAC rigid ductwork, flex ductwork and 6 2x2 ceiling diffusers as indicated on drawing.
2. Remove existing re-heat coil and cap off hot water supply and return piping system.
3. Remove all ductwork suspension systems associated with the removed ductwork.
4. Remove and reinstall all acoustical tile and acoustical tile suspension systems as required to perform the removal of all ductwork as indicated on drawings.
5. Cap off, seal and insulate exposed area in the side of the existing main supply duct.

				<div><div></div><div>NATIONAL CEMETERY ADMINISTRATION</div></div>		<div><div><div>Drawing Title</div><div>Mechanical Demolition Plan</div></div><div><div>Approved: Director, Technical Support Service</div><div>Approved: Chief, Architectural & Engineering Division</div></div></div>		<div><div><div>Project Title</div><div>Computer Room Expansion</div><div>Systems Integration Center 5101 Russell Road Quantico, Virginia 22134</div></div><div><div>Building Number</div><div>Checked</div><div>Drawn JDS</div></div><div><div>Location</div><div>Quantico National Cemetery Quantico, Virginia</div></div></div>		<div><div><div>Date</div><div>5/8/00</div></div><div><div>Project No.</div><div>872CM3023</div></div><div><div>DRAWING NO.</div><div>M1</div><div>Dwg. 8 of 10</div></div></div>	
Revisions		Date									

1. Contractor shall coordinate the final locations of all suspended equipment. Shop drawings on submittals shall reflect locations, dimensions and details of all equipment supports.
2. **Mechanical Hangers:** Provide rod or angle hangers for all ceiling hung mechanical units, ducts and pipes as required. All rod hangers shall be $\frac{1}{2}$ " diameter rods for mechanical units with a minimum one rod at each corner of the unit. $\frac{3}{8}$ " diameter rods for ducts and pipes only. Provide all necessary clamps, straps and fasteners as required. Such items shall have a load carrying capacity with a minimum safety factor of 4.0. L 2-1/2 x 2-1/2x1/4 may be used in lieu of $\frac{1}{2}$ " diameter rod and L 1-1/2x1-1/2x3/16 may be used in lieu of $\frac{3}{8}$ " diameter rod. All hangers shall be supported by bottom flange of steel beam, bottom chord of steel joists at the panel points only. All hangers shall be in accordance with Federal Specification WW-H-1710 - Hangers and Supports, Pipe.
3. All shop connections shall be prequalified welded connections. Field connections shall be AISC standard bolted connections using minimum $\frac{3}{4}$ " diameter high strength bolts conforming to ASTM A 325. Weldings shall conform to the structural welding code, ANSI/AWS D1.1-92 of the American Welding Society.
4. Contractor to measure and fabricate ductwork as required to raise existing 12x10 and 8x8 ductwork and reheat coil to a minimum of 10'-0" above existing concrete floor within the area and dimensions as indicated on drawings.
5. Contractor to measure and provide additional copper pipe as required to raise existing reheat coil to a minimum of 10'-0" above existing concrete floor as indicated on drawings.

		 <div style="display: inline-block; vertical-align: middle; text-align: center;"> <p>NATIONAL CEMETERY ADMINISTRATION</p> </div>		<table border="1" style="width: 100%;"> <tr> <td colspan="2">Drawing Title</td> <td colspan="2">Project Title</td> <td colspan="2">Date</td> </tr> <tr> <td colspan="2" style="text-align: center;">Mechanical Plan</td> <td colspan="2">Computer Room Expansion</td> <td colspan="2">5/8/00</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Systems Integration Center 5101 Russell Road Quantico, Virginia 22134</td> <td colspan="2">Project No. 872CM3023</td> </tr> <tr> <td colspan="2">Approved: Director, Technical Support Service</td> <td>Building Number</td> <td>Checked</td> <td>Drawn</td> <td>DRAWING NO.</td> </tr> <tr> <td colspan="2"></td> <td></td> <td></td> <td>JDS</td> <td>M2</td> </tr> <tr> <td colspan="2">Approved: Chief, Architectural & Engineering Division</td> <td colspan="2">Location</td> <td colspan="2">Dwg. 9 of 10</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Quantico National Cemetery Quantico, Virginia</td> <td colspan="2"></td> </tr> </table>		Drawing Title		Project Title		Date		Mechanical Plan		Computer Room Expansion		5/8/00				Systems Integration Center 5101 Russell Road Quantico, Virginia 22134		Project No. 872CM3023		Approved: Director, Technical Support Service		Building Number	Checked	Drawn	DRAWING NO.					JDS	M2	Approved: Chief, Architectural & Engineering Division		Location		Dwg. 9 of 10				Quantico National Cemetery Quantico, Virginia			
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